

[0042] What is claimed is:

1. A method for translating a data frame, the method comprising the steps of:
 - a. receiving a Point-to-Point Protocol (PPP) over Ethernet (PPPoE) data frame; and
 - b. translating the PPPoE data frame into a PPP over Generic Routing Encapsulation (GRE) data frame.
2. The method claimed in claim 1 further comprising the step of:
 - c. sending the PPP over GRE data frame to a Packet Data Service Node (PDSN) of a CDMA2000 network.
3. The method claimed in claim 1 further comprising the step of:
 - d. prior to step a., sending the PPPoE data frame from a Wireless Local Area Network (WLAN) client to a WLAN Access Control Point (APC);

5 wherein step a. is performed in the WLAN APC.

4. The method claimed in claim 1, wherein step b. comprises the step of:
 - b.1 converting an Ethernet header of the PPPoE data frame to a GRE header in the PPP over GRE data frame.
5. The method claimed in claim 1, wherein the PPPoE data frame is a signaling data frame.
6. The method claimed in claim 1, wherein the PPPoE data frame is a traffic data frame.
7. A Wireless Local Area Network (WLAN) Access Point Controller (APC) that acts to receive a Point-to-Point Protocol (PPP) over Ethernet (PPPoE) data frame and to translate the PPPoE data frame into a PPP over Generic Routing Encapsulation (GRE) data frame.

8. The WLAN APC claimed in claim 7 wherein the WLAN APC sends the PPP over GRE data frame to a Packet Data Service Node (PDSN) of a CDMA2000 network.
9. The WLAN APC claimed in claim 7 wherein the WLAN APC receives the PPPoE data frame from a Wireless Local Area Network (WLAN) client.
10. The WLAN APC claimed in claim 7, wherein the WLAN APC converts an Ethernet header of the PPPoE data frame into a GRE header in the PPP over GRE data frame.
11. The WLAN APC claimed in claim 7, wherein the PPPoE data frame is a signaling data frame.
12. The WLAN APC claimed in claim 7, wherein the PPPoE data frame is a traffic data frame
13. A method for translating a data frame, the method comprising the steps of:
 - a. receiving a PPP over Generic Routing Encapsulation (GRE) data frame; and
 - b. translating the PPP over GRE data frame into a Point-to-Point Protocol (PPP) over Ethernet (PPPoE) data frame.
14. The method claimed in claim 13 further comprising the step of:
 - c. sending the PPPoE data frame to a WLAN client of a WLAN network.
15. The method claimed in claim 13 further comprising the step of:
 - d. prior to step a., sending the PPP over GRE data frame from a Packet Data Service Node (PDSN) of a CDMA2000 network to a WLAN Access Control Point (APC);

5 wherein step a. is performed in the WLAN APC.

16. The method claimed in claim 13, wherein step b. comprises the step of:
 - b.1 converting a GRE header of the PPP over GRE data frame into an Ethernet header of the PPPoE data frame.
17. The method claimed in claim 13, wherein the PPPoE data frame is a signaling data frame.
18. The method claimed in claim 13, wherein the PPPoE data frame is a traffic data frame.
19. A Wireless Local Area Network (WLAN) Access Point Controller (APC) that acts to receive a PPP over Generic Routing Encapsulation (GRE) data frame and to translate the PPP over GRE data frame into a Point-to-Point Protocol (PPP) over Ethernet (PPPoE) data frame.
20. The WLAN APC claimed in claim 19 wherein the WLAN APC sends the PPPoE data frame to a WLAN client of a WLAN network.
21. The WLAN APC claimed in claim 19 wherein the WLAN APC receives the PPP over GRE data frame from a Packet Data Service Node (PDSN) of a CDMA2000 network.
22. The WLAN APC claimed in claim 19, wherein the WLAN APC converts a GRE header of the PPP over GRE data frame into an Ethernet header of the PPPoE data frame.
23. The WLAN APC claimed in claim 19, wherein the PPPoE data frame is a signaling data frame.
24. The WLAN APC claimed in claim 19, wherein the PPPoE data frame is a traffic data frame.